

## ENGINEERING MANAGEMENT SUPPORT INC.

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January 12, 2015

VIA: Electronic Mail

U.S. Environmental Protection Agency  
Region VII SUPR/MOKS  
11201 Renner Boulevard  
Lenexa, KS 66219

**ATTENTION:** Mr. Bradley Vann

**SUBJECT: Monthly Status Report – December 2014**  
**West Lake Landfill Operable Unit 1, Bridgeton, Missouri**

Dear Mr. Vann,

On behalf of Cotter Corporation (N.S.L.), Bridgeton Landfill, LLC., Rock Road Industries, Inc., and the United States Department of Energy (the "Respondents"), Engineering Management Support Inc. (EMSI) submits the attached status report for the month of December 2014 as required by paragraph 56 of the West Lake Landfill Administrative Order on Consent, Docket No. VII-93-F-005. If you have any questions or desire additional information related to this status report or any other aspect of the project, please do not hesitate to contact me.

Sincerely,  
ENGINEERING MANAGEMENT SUPPORT, Inc.



Paul V. Rosasco, P.E.

Distribution:

Shawn Muenks - Missouri Dept of Natural Resources  
Victoria Warren – Republic Services, Inc.  
Ward Herst - Herst & Associates, Inc.  
Jessie Merrigan – Lathrop & Gage  
Bill Beck – Lathrop & Gage  
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Steven Miller - U. S. Department of Energy  
Philip Dupre – U.S. Department of Justice  
Dan Feezor – Feezor Engineering  
Mike Bollenbacher – Auxier & Associates

**Monthly Status Report – December 2014**  
**West Lake Landfill Operable Unit 1**  
**Bridgeton, Missouri**

This status report has been prepared by Engineering Management Support Inc. (EMSI) on behalf of Cotter Corporation (N.S.L.), Bridgeton Landfill, LLC (formerly known as Laidlaw Waste Systems [Bridgeton] Inc.), Rock Road Industries, Inc., and the United States Department of Energy (the “Respondents”) for Operable Unit - 1 (OU-1) at the West Lake Landfill as required by paragraph 56 of the West Lake Landfill Administrative Order on Consent, Docket No. VII-93-F-005.

**1. Work Performed During December 2014**

Project Planning

A draft of the Core Sampling (Phase 1B, 1C and 2) Work Plan for the isolation barrier investigation was submitted to EPA and MDNR on December 18, 2013. EPA comments on the draft work plan were received on December 26, 2013. The final Phase 1B, 1C and 2 Core Sampling Work Plan was submitted on January 8, 2014.

EPA comments on the various work plans prepared for the additional Supplemental Feasibility Study evaluations were received on August 16, 2013. A meeting was held with EPA and MDNR on September 24, 2013 to discuss comments on the work plans for the additional SFS evaluations. Revisions to the work plans for evaluations of alternative Area 2 depths and volumes, apatite treatment technologies and additional discount rate were prepared and submitted to EPA and MDNR on October 31, 2013. A revised work plan for evaluation of alternative landfill cover designs was submitted to EPA and MDNR on February 21, 2014. A revised work plan for performance of fate and transport evaluations was submitted to EPA and MDNR on September 4, 2014. EPA approval of the work plans for additional discount rate evaluations and evaluation of alternative landfill cover designs was received on September 19, 2014. EPA comments on the revised work plan for performance of fate and transport evaluations were received on December 19, 2014.

A draft Remedial Design Work Plan was submitted to EPA in November 2008. In accordance with direction from EPA, all work on design of the ROD-selected remedy has been put on hold.

Fieldwork - Sample Collection/Analysis

No field work was conducted during this period.

### Report Preparation

A summary report of the Phase 1 drilling and sampling investigation of potential areas for locating a thermal/isolation barrier between the North Quarry area of the Bridgeton Landfill and West Lake Landfill Area 1 was completed and submitted to EPA on December 18, 2014.

The monthly progress report for November 2014 was prepared and submitted to EPA and MDNR on December 10, 2014.

During December, the following work was also performed:

- Evaluation of alternative landfill cover designs was conducted during this reporting period;
- Preparation of a comprehensive groundwater report; and
- Work on assembling, verifying and assembling historic site data into a form suitable for loading into EQuIS.

### Project Management

None.

### Meetings

None.

### Correspondence

EPA comments on the revised work plan for performance of fate and transport evaluations were received on December 19, 2014.

EPA comments on the “back-of-the-envelope” volume estimates for the various partial excavation options identified by EPA were received on December 19, 2014.

## **2. Analytical Data Collected During This Reporting Period**

None.

### **3. Work Scheduled to be Performed during January and February 2015**

The following activities will be performed during January and February 2015:

- Discussions with EPA regarding its comments on the revised work plan for performance of fate and transport evaluations and the “back-of-the-envelope” volume estimates for the various partial excavation options identified by EPA and revisions to those evaluations;
- Preparation of a summary report that presents the data from the four additional groundwater monitoring events (July/August 2012, April 2013, July 2013, and October 2013) and provides interpretation of the results for the four events;
- Evaluation of the potential application of an alternative landfill cover that incorporates a geosynthetic clay liner (GCL) into the design of the cover for OU-1; and
- Continue work on assembling, verifying and assembling historic site data into a form suitable for loading into EQUIS.

### **4. Problems Encountered**

None.